

**MAG REGIONAL FREEWAY
BOTTLENECK STUDY
Task 2**

PREVIOUS STUDIES WORKING PAPER

January 30, 2002

Submitted to:
The Maricopa Association of Governments

Prepared by:



OLSSON ASSOCIATES

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The purpose of this working paper is to provide a summary of all relevant projects, programmed or planned, on the regional freeway system. The data is organized by route number and is presented in both table and graphic formats. All tables are grouped at the beginning of the paper followed by the graphics.

<u>Route</u>	<u>Table Page #</u>	<u>Map Page #</u>
I-10	1	5-8
I-17	2	9-10
SR-51	3	11
US-60	3	12-13
Loop 101	4	14-17
SR-143	4	18
Loop 202	4	19

Table I: I-10 Projects

Location	Description	Improvement	Status
Airport Rd	Construct TI	Diamond TI with single-lane ramps	Programmed-Begin FY2002
Bullard Ave	Construct TI	Diamond TI with single-lane ramps	Programmed-Begin FY2006
Litchfield Rd	TI Improvement	Widen Cross road	Programmed-Begin FY2003
I-10/Loop101 System Interchange	Extend Loop-101 to Buckeye Rd	Not Scoped	Not Programmed
91 st Ave to 83 rd Ave	Auxiliary lanes WB	Re-stripe: two more lanes including an auxiliary lane	Programmed-Begin FY 2003
83 rd Ave to 59 th Ave	Auxiliary lanes	Re-stripe: two more lanes including an auxiliary lane	Programmed-Begin FY2003
South Mountain Freeway (West)	Construct System Interchange	EIS-Not Scoped	Not Programmed
Deck Park Tunnel	Complete Express Bus Station	Provide Access into Station	Not Programmed
Deck Park Tunnel	Restripe	Increase Number of Lanes	Under Study
I-10/SR-51 System Interchange	Construct HOV Direct Connections	Single lane HOV ramps	Programmed-Begin FY2004
16 th St to Baseline Rd	Construct C/D roads	Not Scoped	Not Programmed
University Dr TI	Improvements	Not Scoped	Not Programmed
University Dr and I-10	Complete SR-153	Not Scoped	Not Programmed
SR-143/I-10 System Interchange	Reconstruct	Not Scoped	Not Programmed
I-10/US-60	Construct HOV Direct Connections	Single lane HOV ramps	Under Construction
Ray Rd TI	TI Improvements	Ray Road Improvements-double left turn lanes NB	Programmed-Begin FY2006-2007
Chandler Blvd TI	Reconstruct	Chandler Blvd Improvements-Three lanes in each direction, a double NB left-turn lane and a single SB left-turn lane	Programmed-In Process
Chandler Blvd to Maricopa Rd	Widen I-10 to six lanes	Add one general use lane in each direction	Not Programmed
Santan/South Mountain	Construct System Interchange	System Interchange	Programmed-In Process
Maricopa Rd TI	Reconstruct	Diamond TI with single-lane ramps	Programmed-Begin FY2003
Maricopa Rd to Riggs Rd	Widen I-10 southward to six lanes	Add one general use lane in each direction	Programmed-Begin FY2007
Riggs Rd TI	Reconstruct	Diamond TI with single-lane ramps	Programmed-Begin FY2003

Table II: I-17 Projects

Location	Description	Improvement	Status
Pioneer Rd to Anthem Way	Construct Auxiliary Lanes	Auxiliary lanes from Pioneer Rd TI to Daisy Mtn. TI and Daisy Mtn. TI to Anthem TI	Programmed-Begin FY2003
Daisy Mountain TI	Construct	Tight Diamond TI, single lane ramps	Programmed-Begin FY2003
Rose Garden Lane to Happy Valley Road	Widen Roadway	Five General Purpose lanes and one HOV lane	Not Programmed
Happy Valley Road to New River TI	Widen Roadway	Four General Purpose lanes and one HOV lane	Not Programmed
New River TI to Black Canyon City TI	Widen Roadway	Four General Purpose lanes	Not Programmed
Carefree Hwy TI	Reconstruct for 8-10 lanes	To be determined from the alternatives: double roundabout, single roundabout, spread diamond with frontage roads, or tight diamond with frontage roads.	Programmed-Begin FY2004
North	Construct TIs at 2 or more of these location: Jomax Rd, Lone Mountain Rd, Dove Valley Rd	To be determined	Not Programmed
Happy Valley TI	Reconstruction	Not scoped	Not Programmed
Pinnacle Peak TI	Reconstruction	Minor improvements	Programmed-Under Construction
Deer Valley TI	Partial reconstruction	Add 2 nd WB left turn lane and widen approach to increase storage	Programmed-Begin FY2005
Thunderbird Rd to Loop 101	Addition of 9 th -10 th lanes	Addition of 9 th -10 th lanes	Not Programmed
Greenway Rd to Peoria Ave	Auxiliary Lanes	Auxiliary Lanes	Programmed-Begin FY2002
Thunderbird Rd TI, Greenway Rd TI, and Cactus Rd TI	Minor Upgrades to TIs	Minor Upgrades to TIs-dual left turn lanes on Greenway Rd TI, dual left turn lanes on Cactus Rd TI	Programmed-Begin FY2001, 2002,2004
Thomas Rd to Thunderbird Rd	Addition of 9 th -10 th lanes	Addition of 9 th -10 th lanes	Not Programmed
Thomas Rd to McDowell Rd	SB-Auxiliary Lane	SB-Auxiliary Lane	Programmed-Begin FY2002

Table III: SR-51 Projects

Location	Description	Improvement	Status
SR-51/I-10	HOV Connections	Single HOV Ramp Connections	Programmed-Begin FY2004
I-10 to Shea Blvd	Implement HOV lanes	One HOV lane both directions	Programmed-Begin FY2003
Bell Rd to Pima Freeway	Extend SR-51	Three lanes each direction	Programmed-Under Construction

Table IV: US-60 Projects

Location	Description	Improvement	Status
I-10 to Hardy Dr	Construct HOV lanes	One HOV lane both directions	Programmed-Under Construction
I-10 to Val Vista Dr	Complete TI reconstructions at Mill Ave, Dobson Rd, Alma School Rd, Mesa Dr, Rural Rd, and McClintock Dr	Single lane on and off ramps	Programmed-Under Construction
Hardy Dr to Val Vista Dr	Construct HOV, general use, and auxiliary lanes	Add one HOV lane both directions, add two general use lanes from Alma School Road to Gilbert Road both directions, add one general use lane from Gilbert Road to Higley Road both directions	Programmed-Under Construction
Country Club Dr to Gilbert Rd	Add auxiliary lanes	Add auxiliary lanes	Programmed-Under Construction
Val Vista Dr to Higley Rd	Add auxiliary lanes	Add auxiliary lanes	Programmed-Begin FY2007
Val Vista Dr to Power Rd	Construct HOV and 4 th general use lane	Add one general use lane and one HOV lane both directions	Programmed-Begin FY2007
US-60/Loop 202	System Interchange	System Interchange	Programmed-Begin FY2007

Table V: Loop 101 Projects

Location	Description	Improvement	Status
64 th St	Construct TI	Regular Diamond Interchange with single-lane ramps	Not Programmed- 2004(possibly)
Scottsdale Rd to Pima Rd	Completion	Three general use lanes each direction	Programmed-Under Construction
I-10 to Buckeye Rd	Extend Loop 101 south	Not Scoped	Not Programmed
Grand Ave	Construct more direct access to the north	Add NB Single lane on ramp	Programmed-Begin FY2002
75 th Ave to 59 th Ave	Construct EB Auxiliary lane	Add EB Auxiliary lane	Programmed-Begin FY2002
59 th Ave to 51 st Ave	Construct EB Auxiliary lane	Add EB Auxiliary lane	Programmed-Begin FY2003
University Dr to Broadway Rd	SB Auxiliary lane	Re-stripe the configuration to five general use lanes and one auxiliary lane	Programmed-Begin FY2003
Southern Ave to Broadway Rd	NB Auxiliary lane	Re-stripe the configuration to five general use lanes and one auxiliary lane	Programmed-Begin FY2003
Bell Rd to Union Hills Dr	Auxiliary Lanes	Add one auxiliary lane in each direction	Programmed-Begin FY2003

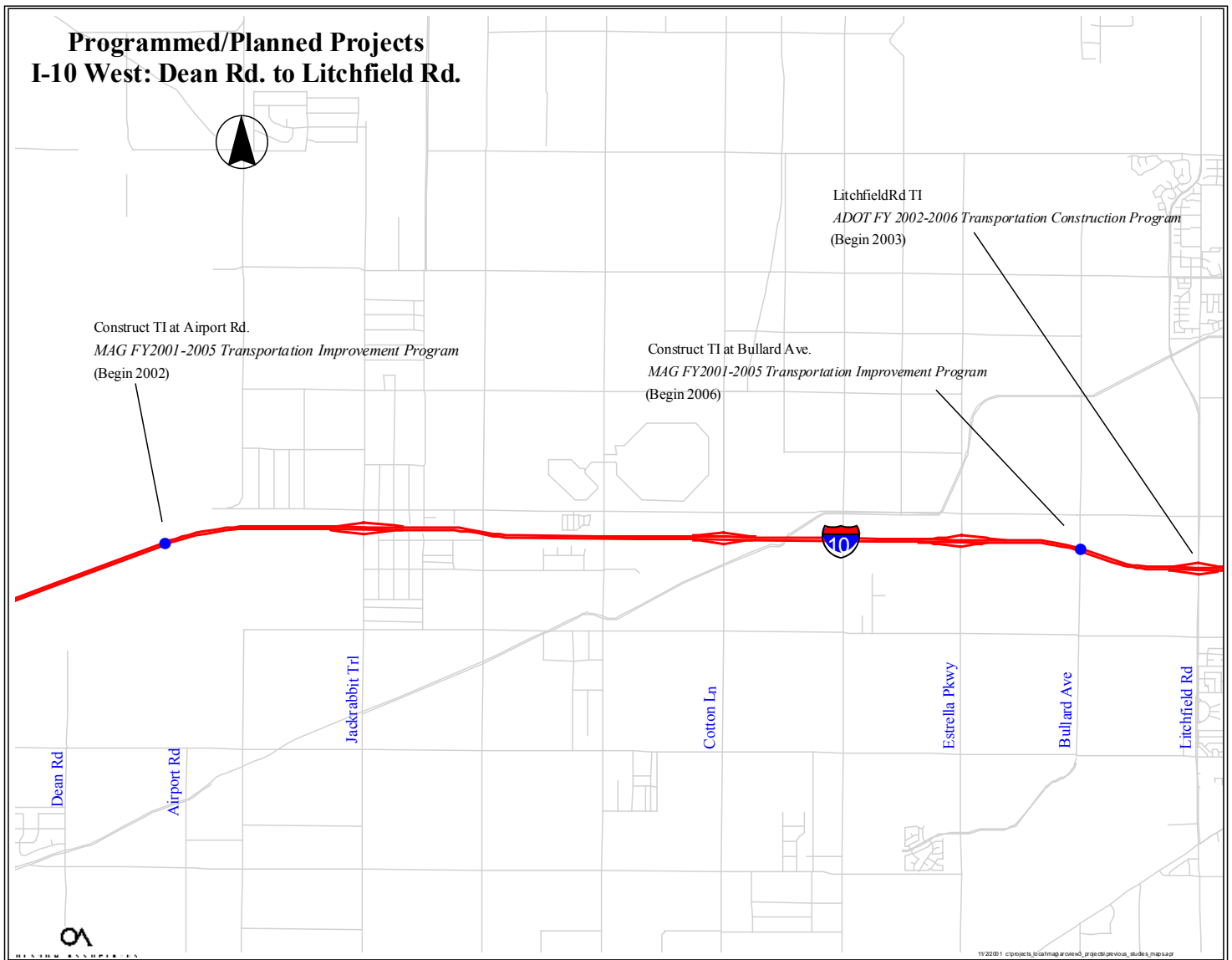
Table VI: SR-143 Projects

None

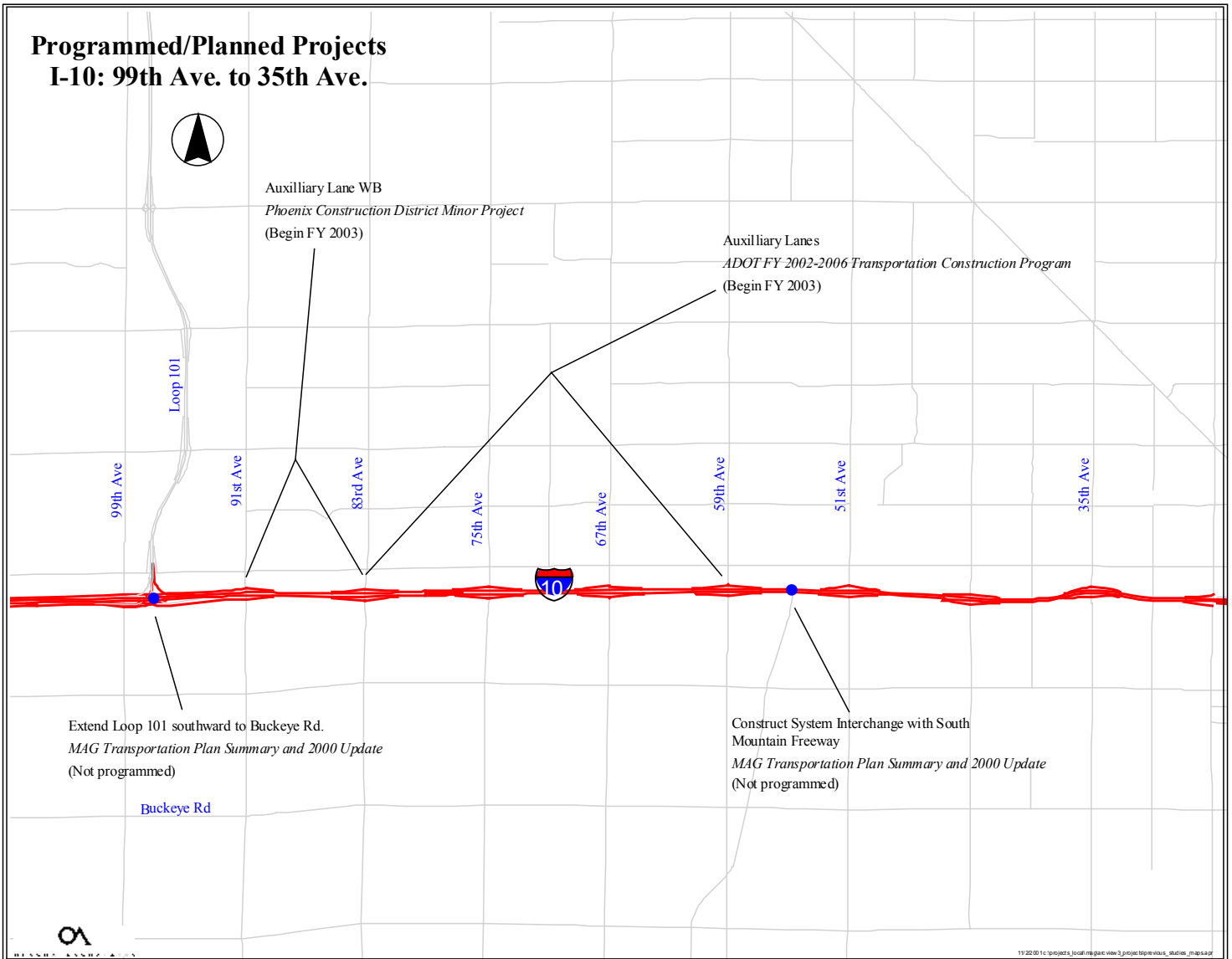
Table VII: Loop 202 Projects

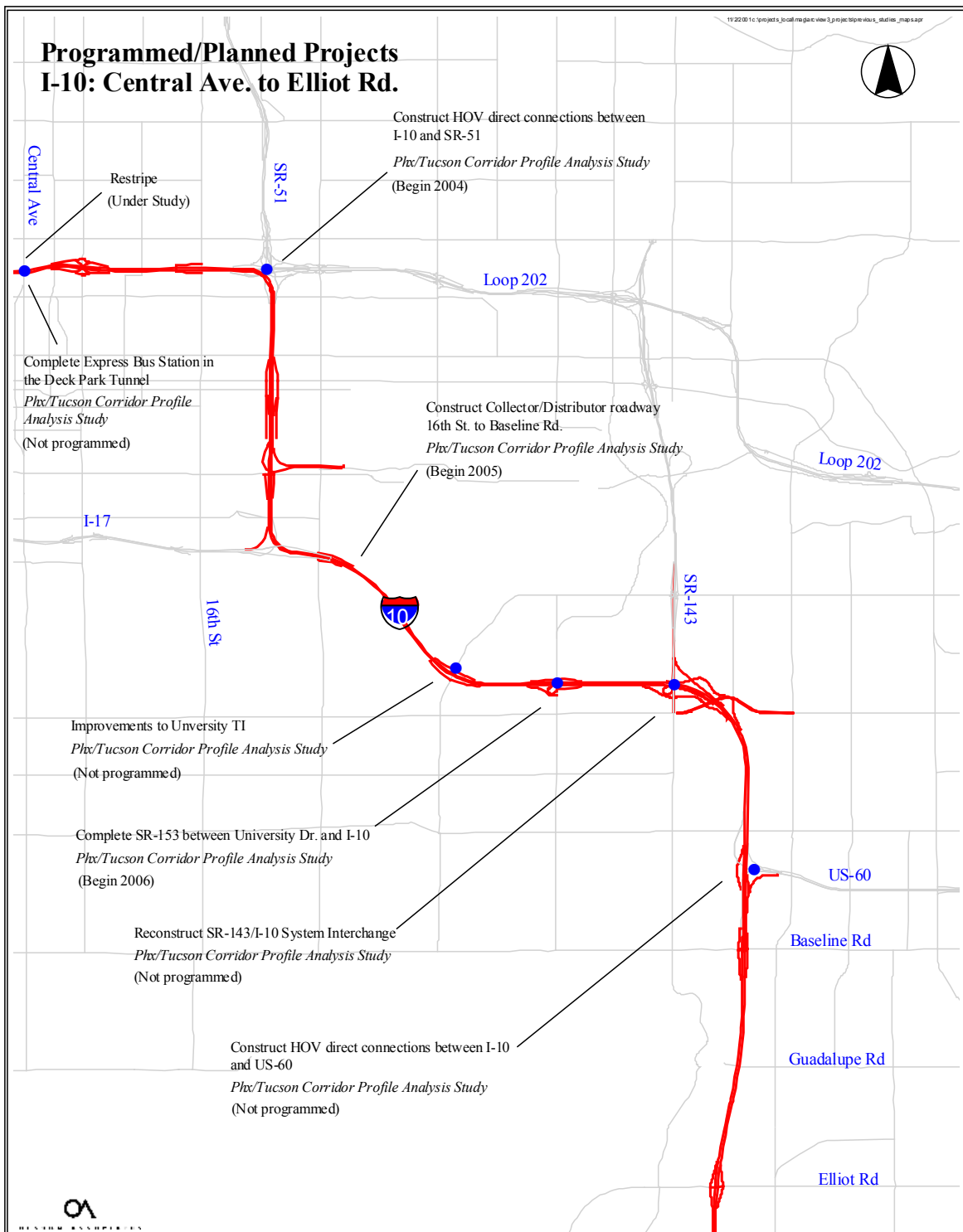
Location	Description	Improvement	Status
Country Club Dr to Higley Rd	Extend	Three general use lanes each direction	Programmed-Under Construction- Country Club to Gilbert Opened 1/14/2002

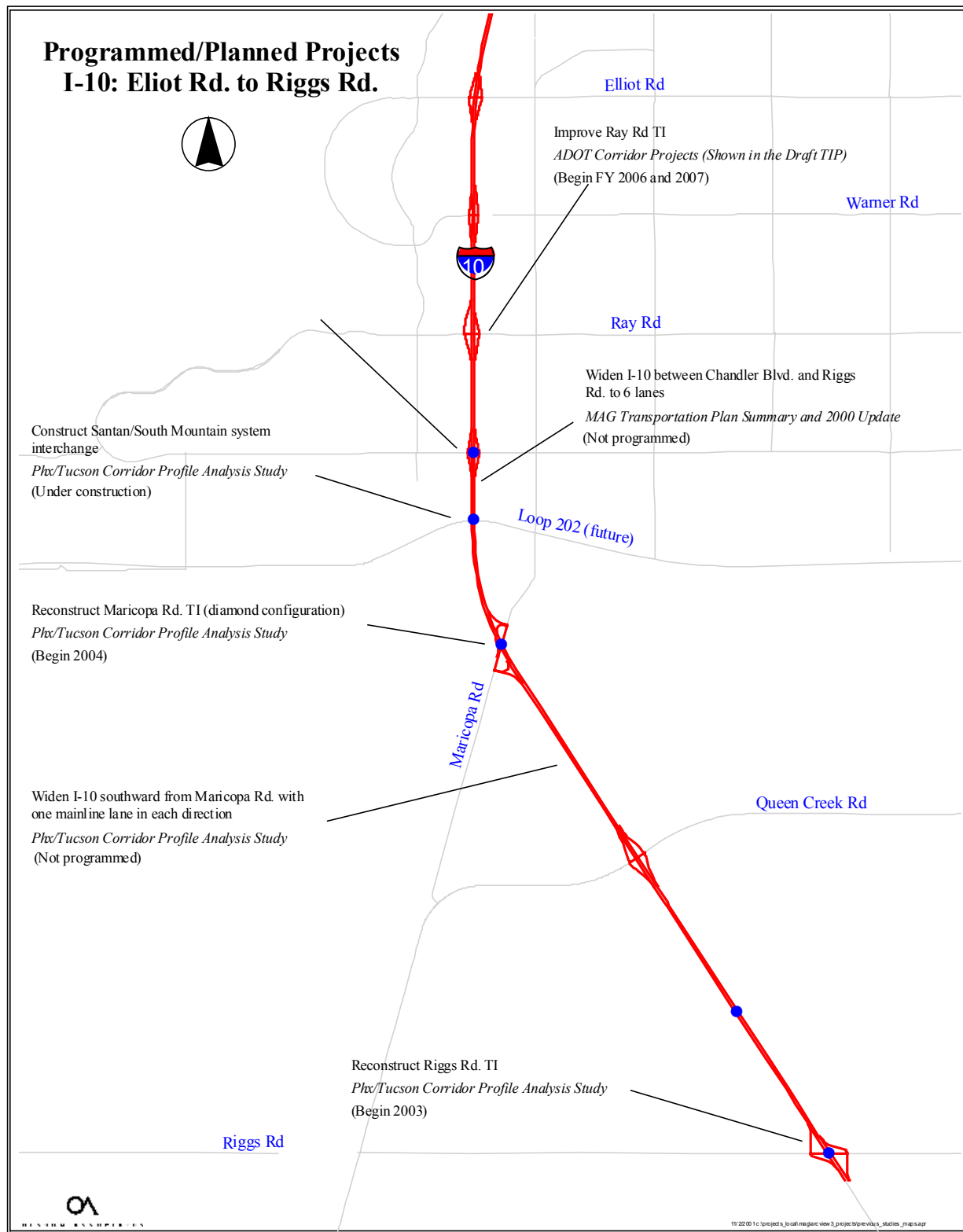
Programmed/Planned Projects **I-10 West: Dean Rd. to Litchfield Rd.**

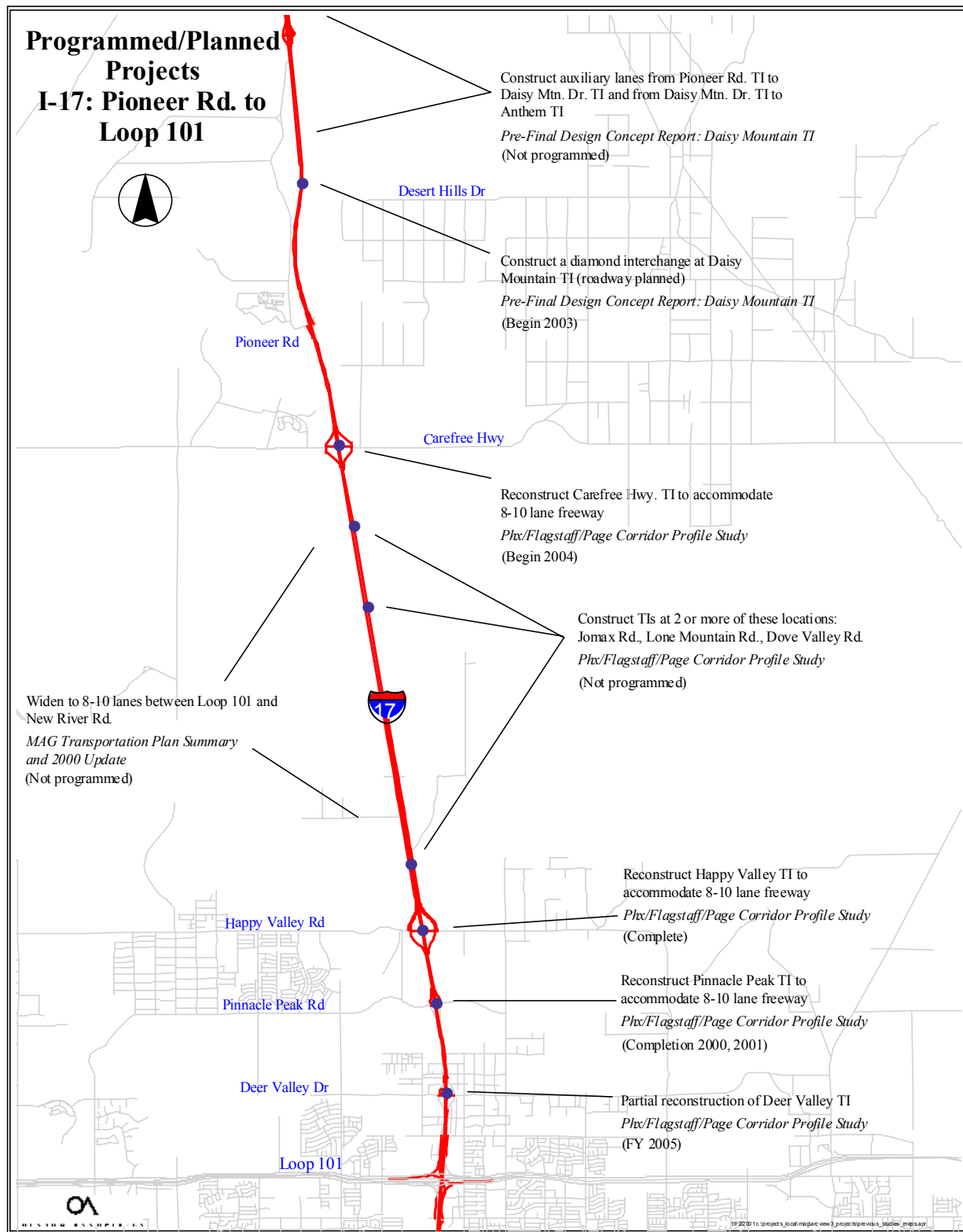


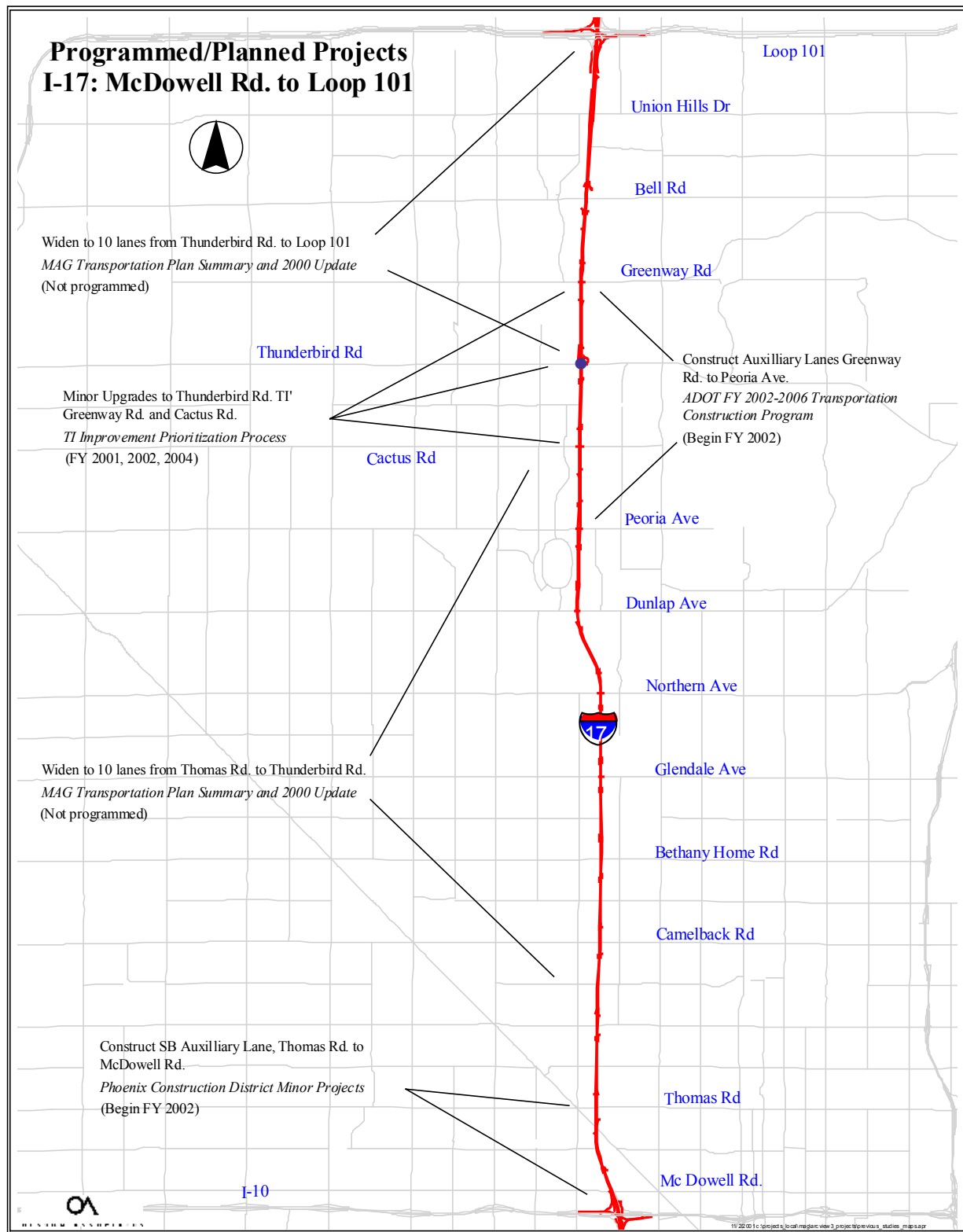
Programmed/Planned Projects I-10: 99th Ave. to 35th Ave.











Programmed/Planned Projects
SR-51: Bell Rd. to I-10

Extend SR-51 from Bell Rd. to Union Hills Dr.; then from Union Hills Dr. to Loop 101
MAG FY2001-2005 Transportation Improvement Program
 (Begin 2002)

Implement HOV lanes from I-10 to Shea Blvd.
HOV Lanes Study: SR-51: Jct I-10 to Shea Blvd.
 (Begin 2003)

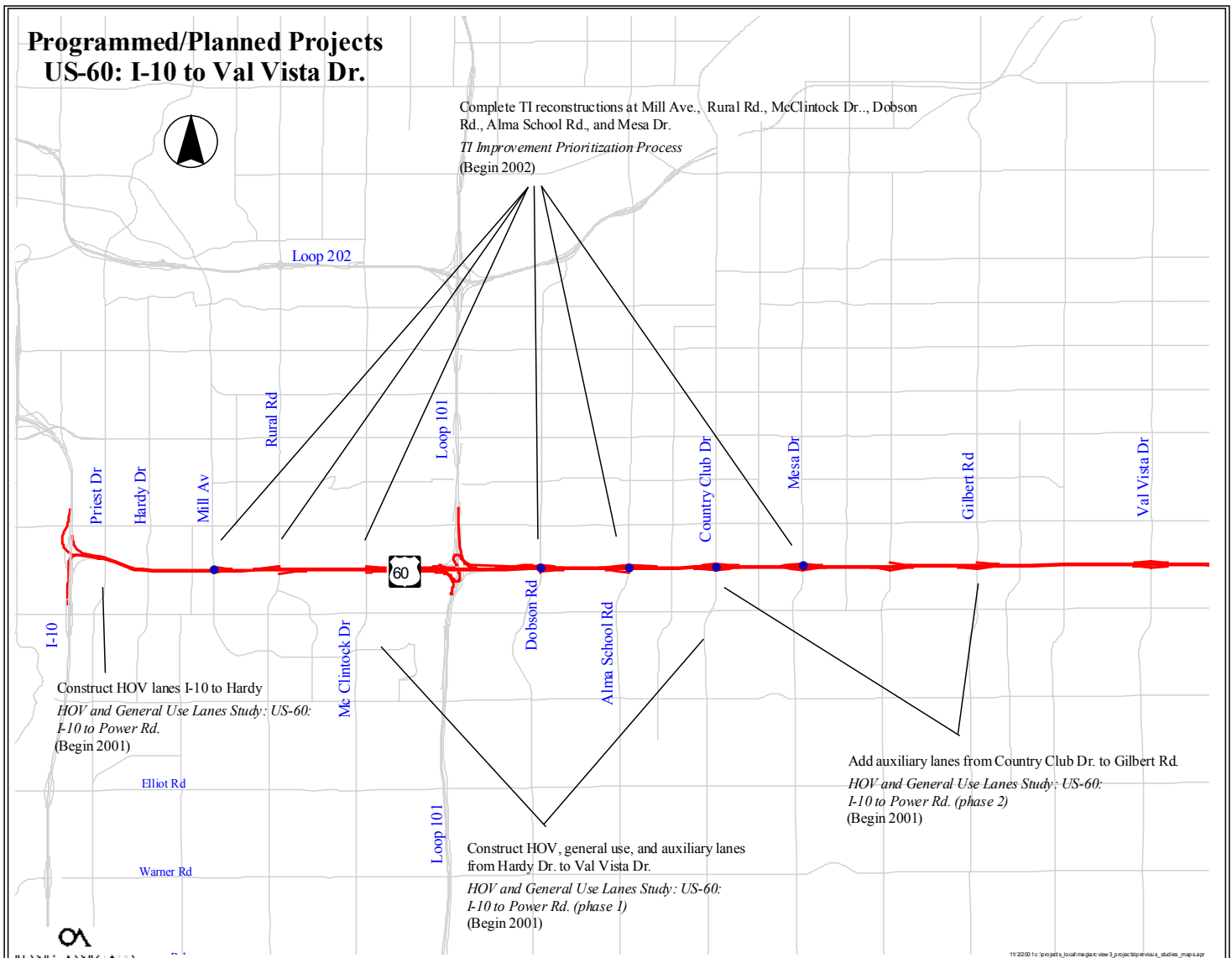
Construct Highland TI
Phoenix Maintenance Minor Projects
 (Begin FY 2000)

Construct HOV connections between SR-51 and I-10
HOV Lanes Study: SR-51: Jct I-10 to Shea Blvd.
 (Begin 2004)

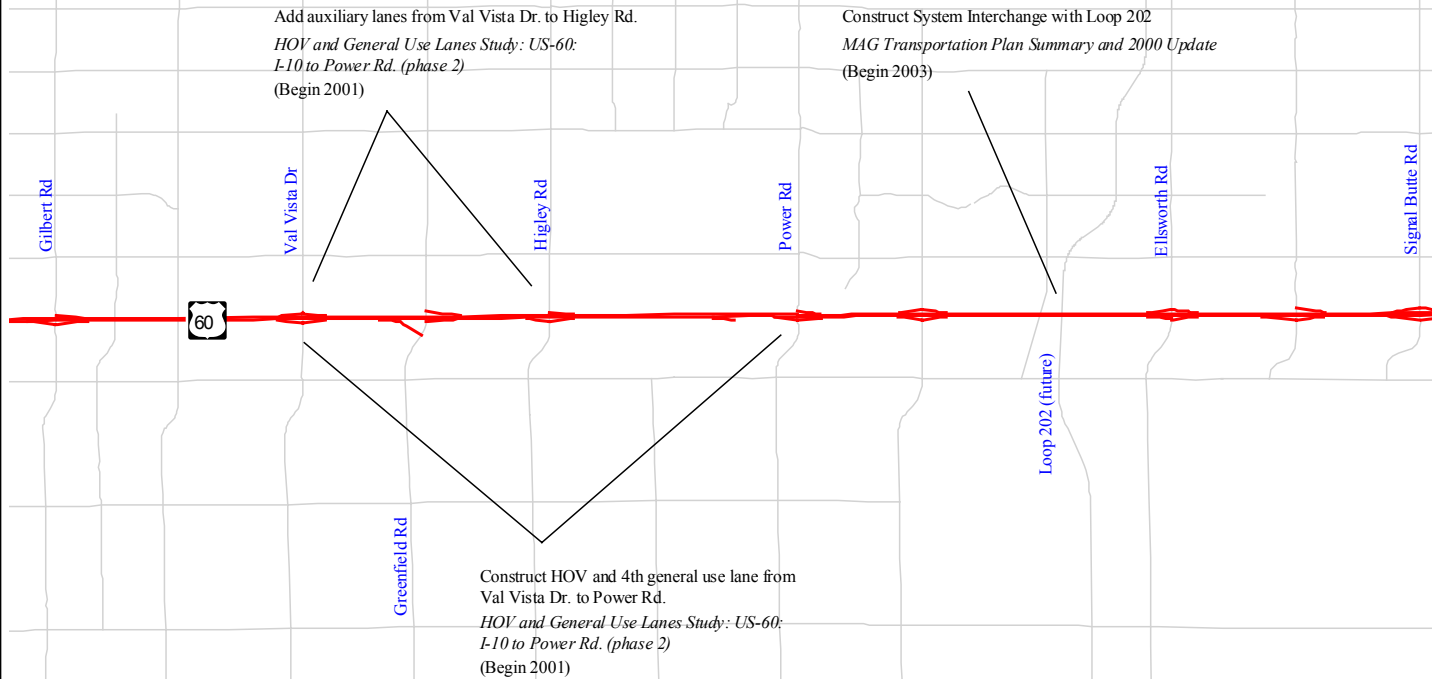
Map labels: Bell Rd., Cactus Rd., Shea Blvd., Glendale Ave, Bethany Home Rd, Indian School Rd, I-10, Loop 202.

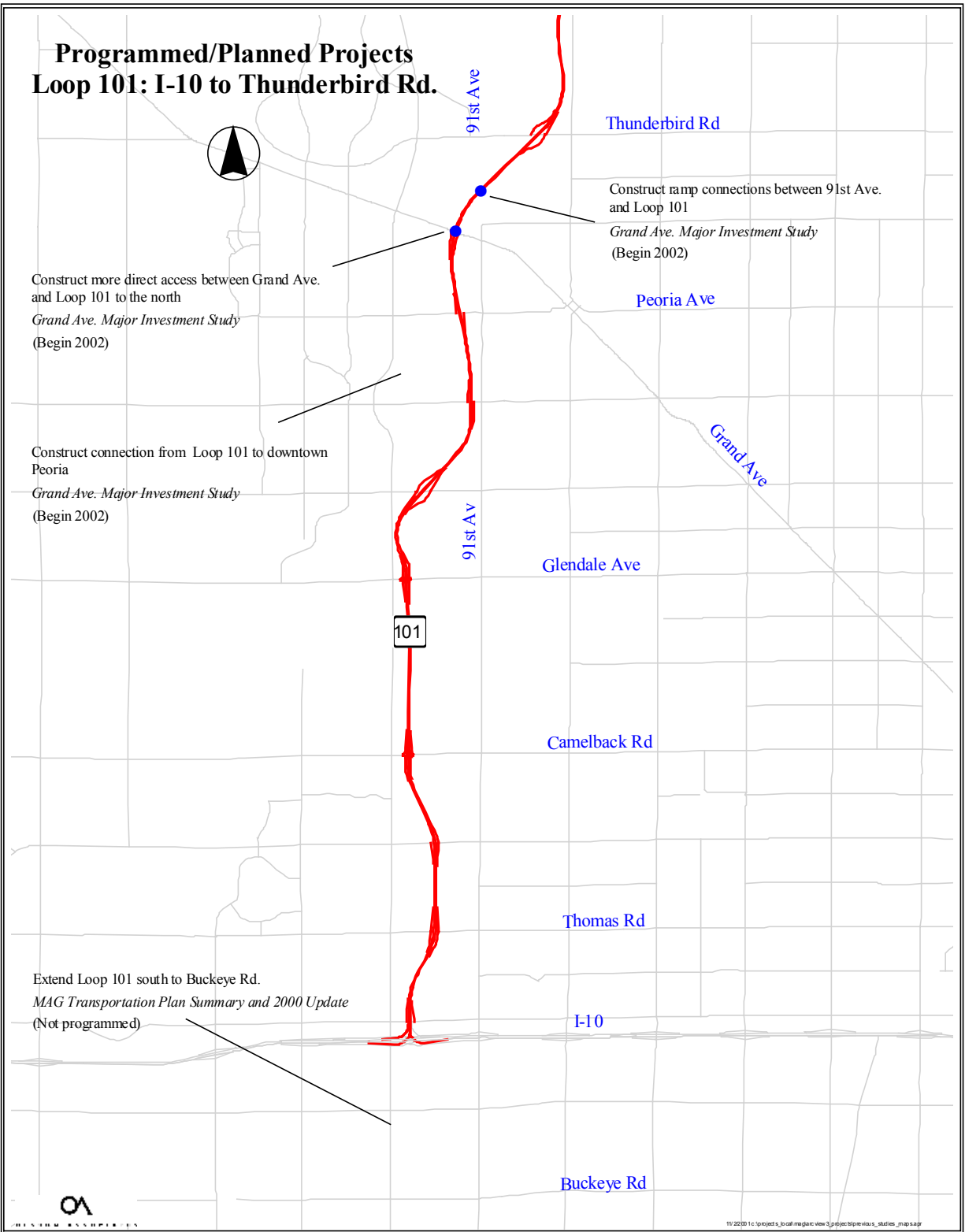
Programmed/Planned Projects

US-60: I-10 to Val Vista Dr.



Programmed/Planned Projects **US-60: Gilbert Rd. to Signal Butte Rd.**





Programmed/Planned Projects **SR-101 West; Bell Rd. to 43rd Ave.**



EB Auxilliary Lane, 75th Ave. to 59th Ave.
Phoenix Construction District Minor Projects
 (Begin FY 2002)

EB Auxilliary Lane, 59th Ave. to 51st Ave.
Phoenix Construction District Minor Projects
 (Begin FY 2003)

83rd Ave

75th Ave

67th Ave

59th Ave

51st Ave

43rd Ave

Union Hills Dr

101

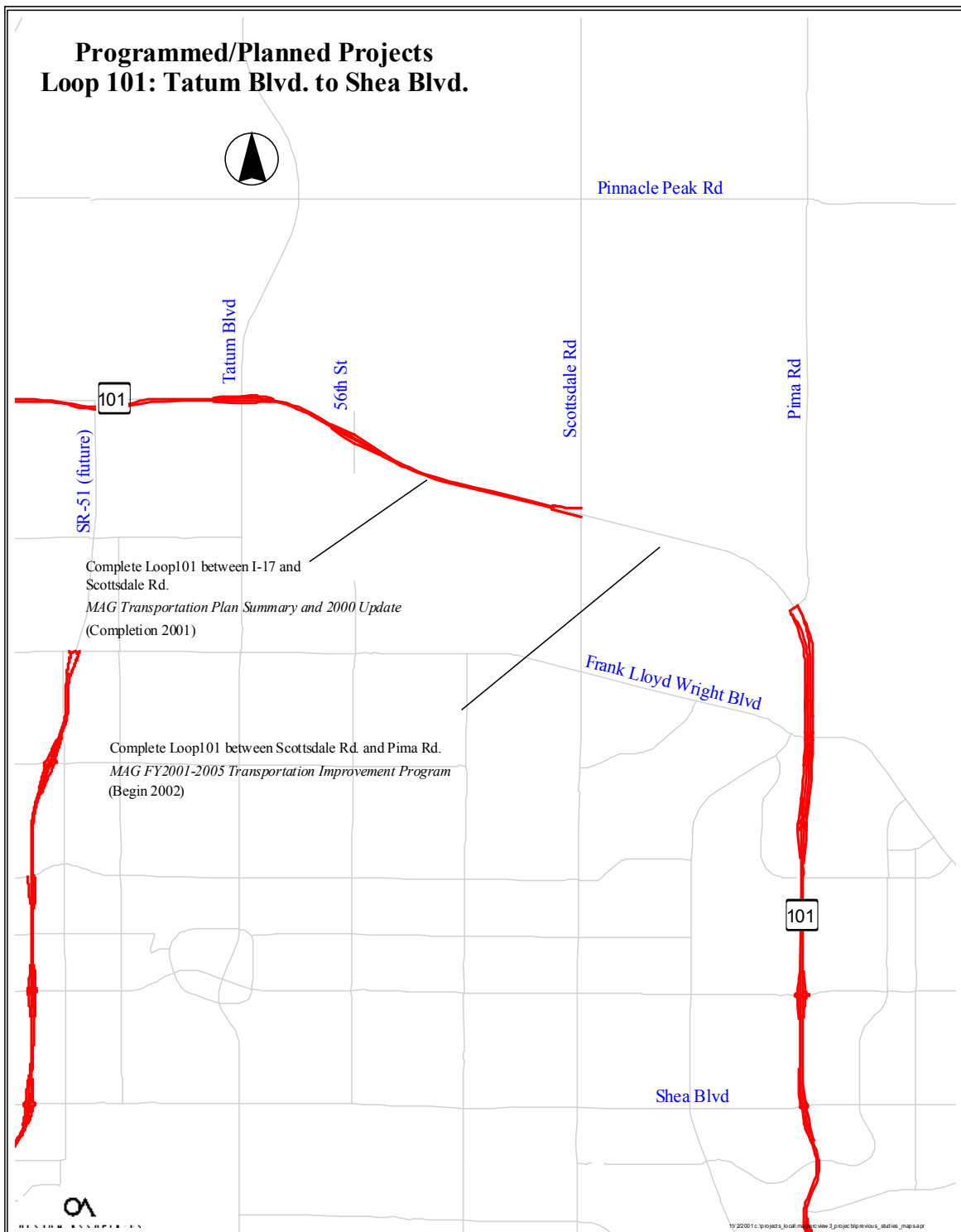
Auxilliary Lanes, Union Hills Dr. to Bell Rd.
Phoenix Construction District Minor Projects
 (Begin FY 2003)

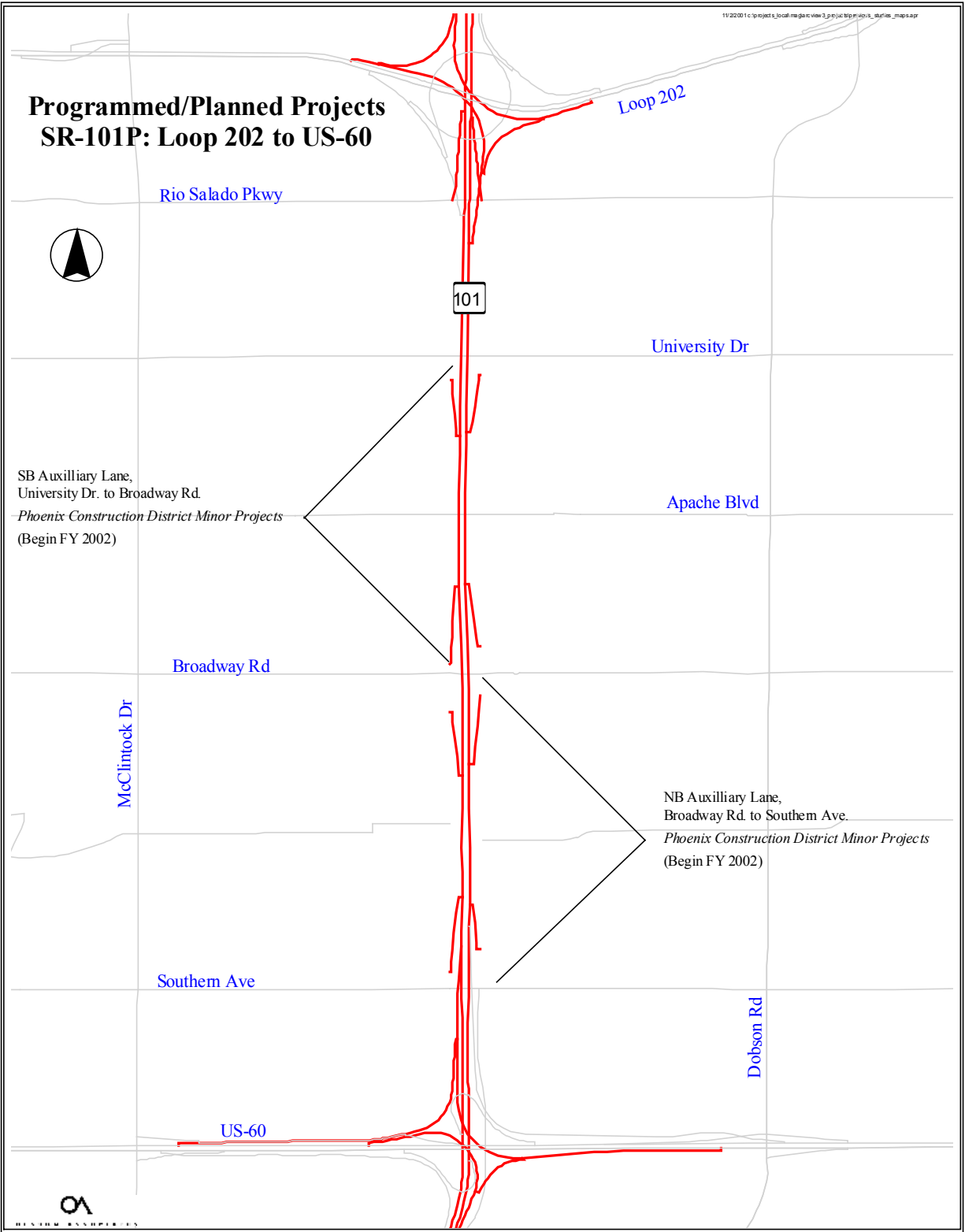
Bell Rd

101

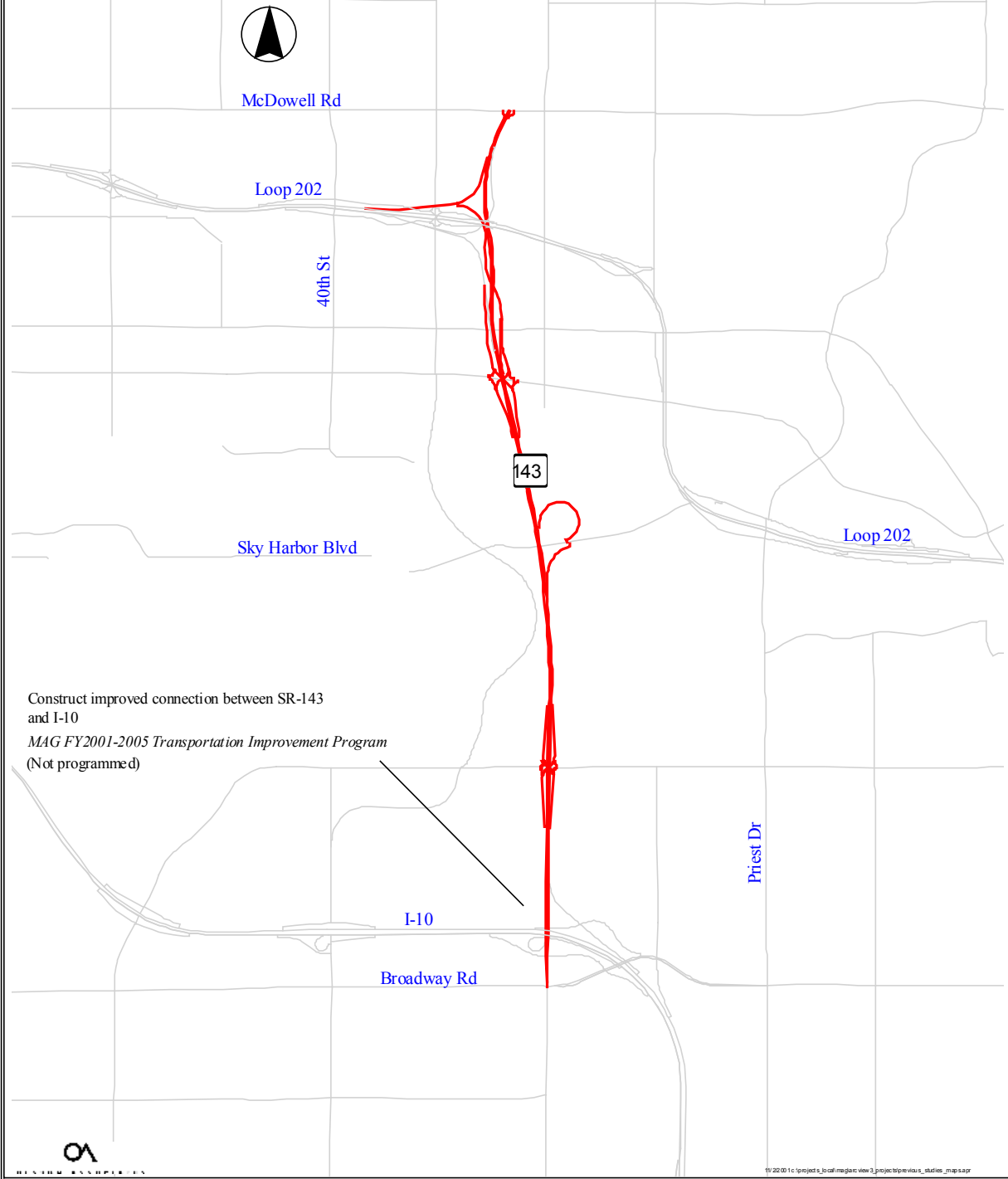


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Programmed/Planned Projects SR-143: McDowell Rd. to Broadway Rd.



Programmed/Planned Projects Loop 202: I-10 to Country Club Dr.

